

Amendments to the specification:

Please replace the paragraph beginning on page 16, line 16 and ending on line 18 with the following amended paragraph:

In formula (I), D represents a nitrogen atom, a phosphorus atom or a substituent $-R^7$ -containing carbon atom ($-N(R^7)-$), preferably a substituent $-R^7$ -containing carbon atom.

Please replace the paragraph beginning on page 145, line 2 and ending on line 4 with the following amended paragraph:

As the component (A) in the present invention, compound (a-24) represented by the following general formula (XXVI), (XXVII), (XXVIII) or ~~(XXVIX)~~ (XXIX) can be used.

Please replace the paragraph beginning on page 145, line 7 and ending on line 12 with the following amended paragraph:

In formulae (XXVI), (XXVII), (XXVIII) and ~~(XXVIX)~~ (XXIX), M represents a transition metal atom selected from the groups 3 to 11 in the periodic table, preferably a transition metal atom in the groups 3 to 6 and 8 to 10, more preferably a transition metal atom in the group 4, 5 or 6, still more preferably a metal atom in the group 4 or 5.

Please replace the paragraph beginning on page 145, line 13 and ending on line 16 with the following amended paragraph:

In formulae (XXVI), (XXVII), (XXVIII) and ~~(XXVIX)~~ (XXIX), m is an integer of 1 to 6, preferably an integer of 1 to 4, more preferably an integer of 1 to 3, still more preferably an integer of 1 to 2.

Please replace the paragraph beginning on page 145, line 17 and ending on page 146, line 4 with the following amended paragraph:

In formulae (XXVI), (XXVII), (XXVIII) and ~~(XXVIX)~~ (XXIX), A represents an oxygen atom, a sulfur atom or a nitrogen atom. Depending on the mode of binding to the metal M, A can have a substituent group R⁵.

Please replace the paragraph beginning on page 146, line 4 and ending on line 5 with the following amended paragraph:

In formulae (XXVI), (XXVII), (XXVIII) and ~~(XXVIX)~~ (XXIX), B represents N-binding groups -R⁶ and -R⁷, =NR⁸ or =CR⁹R¹⁰.

Please replace the paragraph beginning on page 146, line 6 and ending on line 16 with the following amended paragraph:

In formulae (XXVI), (XXVII), (XXVIII) and ~~(XXVIX)~~ (XXIX), R^1 to R^{10} may be the same or different and each represent a hydrogen atom, a halogen atom, a hydrocarbon group, an oxygen-containing group, a nitrogen-containing group, a boron-containing group, a sulfur-containing group, a phosphorus-containing group, a heterocyclic compound residue, a silicon-containing group, a germanium-containing group or a tin-containing group, and two or more of these groups may be bound to each other to form a ring. When m is 2 or more, two groups out of the groups represented by R^1 to R^{10} may be bound to one another to form a ring, and R_s may be the same or different.

Please replace the paragraph beginning on page 146, line 17 and ending on line 23 with the following amended paragraph:

The halogen atom, hydrocarbon group, oxygen-containing group, nitrogen-containing group, boron-containing group, sulfur-containing group, phosphorus-containing group, heterocyclic compound residue, silicon-containing group, germanium-containing group and tin-containing group represented by R_1 to R_{10} in formulae (XXVI), (XXVII), (XXVIII) and ~~(XXVIX)~~ (XXIX) include, for example, the same atom or group illustrated as R^1 to R^7 in the general formula (I) above.

Please replace the paragraph beginning on page 146, line 25 and ending on line 25 with the following amended paragraph:

In formulae (XXVI), (XXVII), (XXVIII) and ~~(XXVIX)~~ (XXIX), n is a number satisfying the valence of M, and is specifically an integer of 1 to 5, preferably 1 to 4, more preferably 1 to 3.

Please replace the paragraph beginning on page 147, line 1 and ending on line 11 with the following amended paragraph:

In formulae (XXVI), (XXVII), (XXVIII) and ~~(XXVIX)~~ (XXIX), X represents a hydrogen atom, a halogen atom, an oxygen atom, a hydrocarbon group, an oxygen-containing group, a sulfur-containing group, a nitrogen-containing group, a boron-containing group, an aluminum-containing group, a phosphorus-containing group, a halogen-containing group, a heterocyclic compound residue, a silicon-containing group, a germanium-containing group or a tin-containing group, and when n is 2 or more, a plurality of groups represented by Xs may be the same or different, and a plurality of groups represented by Xs may be bound to each other to form a ring.

Please replace the paragraph beginning on page 147, line 19 and ending on line 20 with the following amended paragraph:

The halogen atom, hydrocarbon group, oxygen-containing group, sulfur-containing group, nitrogen-containing group, boron-containing group, aluminum-containing group,

phosphorus-containing group, halogen-containing group, heterocyclic compound residue, silicon-containing group, germanium-containing group and tin-containing group represented by X in formulae (XXVI), (XXVII), (XXVIII) and ~~(XXVIX)~~ (XXIX) include, for example, the same atom or group illustrated as X¹ in the general formula (I) above.

Please replace the paragraph beginning on page 180, line 1 and ending on line 10 with the following amended paragraph:

A flask having an internal volume of 200 ml purged sufficiently with nitrogen was charged with component (b1-1) in an amount of 4 mmol in term of magnesium atom and 100 ml purified toluene, and while the sample was kept at room temperature under stirring, 18.8 ml toluene solution (0.00106 mmol/ml) of component ~~(a2-172)~~ (a2-134) below was added dropwise thereto over 20 minutes. After the mixture was stirred for 1 hour, the solids were collected by filtration and washed sufficiently with toluene, and 50 ml purified decane was added thereto to give a decane slurry of component (b1-1-a2-134).

Please replace the paragraph beginning on page 184, line 2 and ending on line 12 with the following amended paragraph:

A flask having an internal volume of 200 ml purged sufficiently with nitrogen was charged with component ~~(b1-1)~~ (b1-2) in an amount of 3 mmol in term of magnesium atom and purified toluene so as to adjust the total volume to 85.1 ml, and while the sample was kept at room temperature under stirring, 14.9 ml toluene solution (0.001005 mmol/ml) of component

~~(a2-195)~~ ~~below~~ (a2-172) ~~above~~ was added dropwise thereto over 20 minutes. After the mixture was stirred for 1 hour, the solids were collected by filtration and washed sufficiently with toluene, and 50 ml purified decane was added thereto to give a decane slurry of component ~~(b1-1-a2-195)~~ (b1-2-a2-172).

Please replace the paragraph beginning on page 186, line 3 and ending on line 13 with the following amended paragraph:

A flask having an internal volume of 200 ml purged sufficiently with nitrogen was charged with component (b2-1) in an amount of 4 mmol in term of magnesium atom and purified toluene so as to adjust the total volume to 85.4 ml, and while the sample was kept at room temperature under stirring, 14.6 ml toluene solution (0.001029 mmol/ml) of component a2-172) ~~below~~ above was added dropwise thereto over 20 minutes. After the mixture was stirred for 1 hour, the solids were collected by filtration and washed sufficiently with toluene, and 50 ml purified decane was added thereto to give a decane slurry of component ~~(b1-1-a2-195)~~ (b2-1-a2-172).

Please replace the paragraph beginning on page 186, line 19 and ending on line 23 with the following amended paragraph:

Polymerization was carried out in the same manner as in Example 10 ~~12~~ except that in the Polymerization in Example 10 ~~12~~, the component (b2-1-a2-172) prepared above was used in place of the component (b1-1-a2-195). As a result, 55.9 g polyethylene was obtained.

Please replace the paragraph beginning on page 187, line 26 and ending on page 188, line 8 with the following amended paragraph:

A flask having an internal volume of 200 ml purged sufficiently with nitrogen was charged with purified toluene so as to adjust the total volume to 85.3 mL and with component (b1-3) in an amount of 3 mmol in term of magnesium atom. While the sample was kept at 25°C under stirring, 14.7 mL toluene solution (0.001021 mmol/ml) of component (a2-172) ~~below~~ above was added dropwise thereto over 20 minutes. After the mixture was stirred for 1 hour, the solids were collected by filtration and washed sufficiently with toluene, and decane was added thereto to give a decane slurry of component (b1-3-a2-172).

Please replace the paragraph beginning on page 188, line 14 and ending on line 18 with the following amended paragraph:

Polymerization was carried out in the same manner as in Example 10 ~~42~~ except that in the Polymerization in Example 10 ~~42~~, the component (b1-3-a2-172) prepared above was used in place of the component (b1-1-a2-195). As a result, 37.8 g polyethylene was obtained.

Please replace the paragraph beginning on page 190, line 11 and ending on line 15 with the following amended paragraph:

Please replace the paragraph beginning on page 190, line 11 and ending on line 15 with the following amended paragraph:

Polymerization was carried out in the same manner as in Example ~~10 12~~ except that in the Polymerization in Example ~~10 12~~, the component (b1-4-a2-172) prepared above was used in place of the component (b1-1-a2-195). As a result, 70.3 g polyethylene was obtained.

Please replace the paragraph beginning on page 190, line 16 and ending on line 20 with the following amended paragraph:

Accordingly, the polymerization activity was 200.8 kg/mmol-Zr×hr, and the polymerization activity per g of the component (~~b1-2-a2-172~~) (b1-4-a2-172) was 13.2 kg/g-cat×hr, and this polyethylene had a [h] value of 16.2 dl/g and a bulk density of 0.34 g/cm³.

Please replace the paragraph beginning on page 194, line 26 and ending on page 195, line 2 with the following amended paragraph:

Component (b1-7) was prepared in the same manner as in Example ~~19 16~~ except that in the Preparation of component (b1-6) in Example ~~19 16~~, chlorobenzene was used in place of anhydrous 1,2-dichlorobenzene.

Please replace the paragraph beginning on page 196, line 11 and ending on line 14 with the following amended paragraph:

95.2 g (1.0 mole) anhydrous magnesium chloride, 582 ml anhydrous 1,2-dichlorobenzene and 306.0 g (2.35 moles) 2-ethylhexyl alcohol were reacted at 130°C for 2 hours to give a uniform solution ~~[[??]]~~ (component (b3)).

Please replace the paragraph beginning on page 202, line 27 and ending on page 203, line 11 with the following amended paragraph:

A flask having an internal volume of 200 ml purged sufficiently with nitrogen was charged with component (b1-8) in an amount of 10 mmol in terms of magnesium atom and 100 ml purified toluene, and while the temperature of the solution was kept at room temperature under stirring, 50 ml toluene solution (0.001 mmol/ml) of component (a2-1) below was added dropwise thereto over 20 minutes. After the mixture was stirred for 1 hour, the solids were collected by filtration (component (b1-8-a2-4) (b1-8-a2-1)). A part of the component ~~(b1-8-a2-4)~~ (b1-8-a2-1) prepared by the above procedure was dried and examined for its composition, revealing that the component (a2-1) was hardly contained (0.004 weight%).